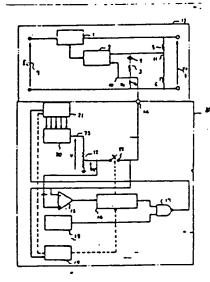
GOSF 1/46C

- (54) VOLTAGE REGULATOR FOR ELECTRIC POWER SUPPLY
- (11) 58-5-4412 (A)
- (43) 31.3.1983 (19) JP
- (21) Appl.-No. 56-152190 -- (22) 28.9.1981-
- (71) HITACHI SEISAKUSHO K.K. (72) KIKUO TOMITA
- (51) Int. Cl<sup>2</sup>. G05F1/56

PURPOSE: To regulate output voltage up to a required range of variation without changing the output voltage independently of the position (division ratio) of an externally adjustable resistor at the connection of the resistor.

CONSTITUTION: The standard voltage  $V_{R}$  of a power supply 13 is inputted to a terminal 14 of an output voltage regulating device 30 of this invension and the voltage  $V_{R}$  is compared with the voltage  $V_{R}$  divided from voltage V by an externally adjustable resistor 12 in a comparaor 15. An output of the comparator 15 is inputted to a gate 17 through a latch circuit 16 to find NAND logic with a pulse outputted from an oscillator 18. An output of the gate 17 is inputted to a binary counter 21, an output of the counter 21 is inputted to a D/A converter 20 and an output 23 from the D/A converter 20 is outputted as a voltage V. The latch circuit 16 latches an output from the comparator 15 in accordance with the output and also controls ON/OFF of a switch 22. A reset circuit 19 resets the counter 21 and the latch circuit 16.



DOC

1: control circuit. 2: error amplifier